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| Mr. Michael T. Davis  WLPCS Pre-Calculus | | Unit 2.9 Rational Functions Practice Quiz  February 27-28, 2018 | |
| Name: | |

Directions for # 1-8: For each rational function:

1. Identify an equation for each vertical asymptote, if any exist.
2. Identify an equation for each horizontal asymptote, if any exist.
3. Identify the coordinates of any y-intercept or x-intercepts, if any exit.
4. Identify any value of x for which the graph has a hole
5. Draw a neat and accurate graph of the function



1. 

VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1.  

VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1. 

VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:



1.  or 

VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1.  or 

VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1.  or 

VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1.  or 

VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1. 

VA:

HA:

X-Intercept(s):

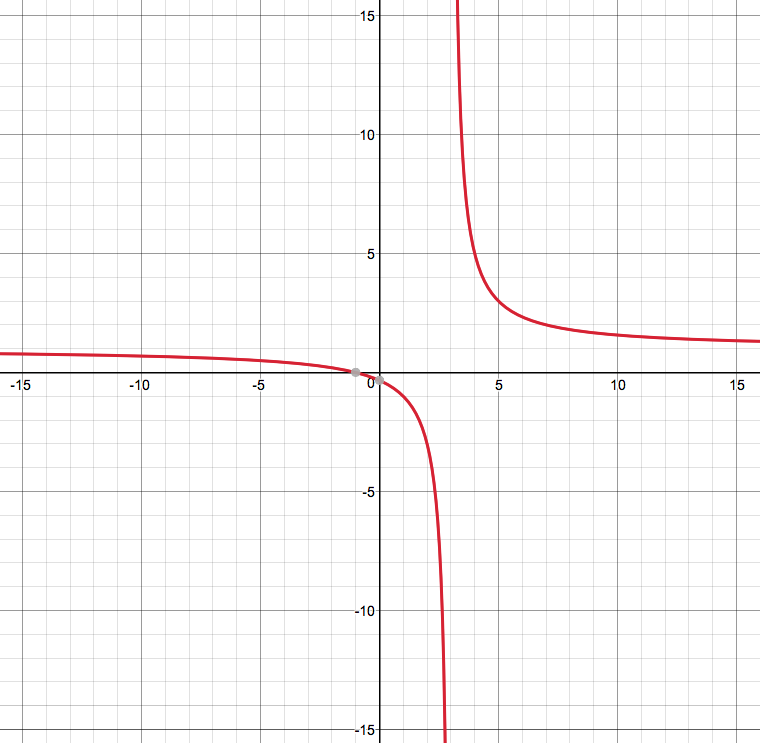
Y-Intercept:

X-Value of Hole:

**MULTIPLE CHOICE**

1. The rational function  has the following domain:
2. 
3. 
4. 
5. 
6. 
7. The rational function  has the following domain:
8. 
9. 
10. 
11. 
12. 
13. The rational function  has a vertical asymptote with equation:
14. 
15. 
16. 
17. 
18. No vertical asymptotes
19. The rational function  has a horizontal asymptote with equation:
20. 
21. 
22. 
23. 
24. There is no horizontal asymptote
25. The rational function  has a vertical asymptote with equation:
26. 
27. 
28. 
29. 
30. None of the above
31. The rational function  has a horizontal asymptote with equation:
32. 
33. 
34. 
35. 
36. None of the above
37. The rational function  has a hole at:
38. 
39. 
40. 
41. 
42. There is no hole
43. The rational function  has a y-intercept at:
44. 
45. 
46. 
47. 
48. There is no y-intercept
49. The rational function  has an x-intercept at:
50. 
51. 
52. 
53. 
54. There is no x-intercept
55. The rational function  has an x-intercept at:
56. 
57. 
58. 
59. 
60. There is no x-intercept
61. The rational function  has a vertical asymptote with equation:
62. 
63. 
64. 
65. 
66. There is no vertical asymptote
67. The rational function  has a vertical asymptote with equation:
68. 
69. 
70. 
71. 
72. There is no vertical asymptote
73. The rational function  has a horizontal asymptote with equation:
74. 
75. 
76. 
77. 
78. There is no horizontal asymptote
79. The rational function  has a hole at:
80. 
81. 
82.  only
83.  only
84. There is no hole

**Directions: Write an equation for each rational function shown below**

1. 

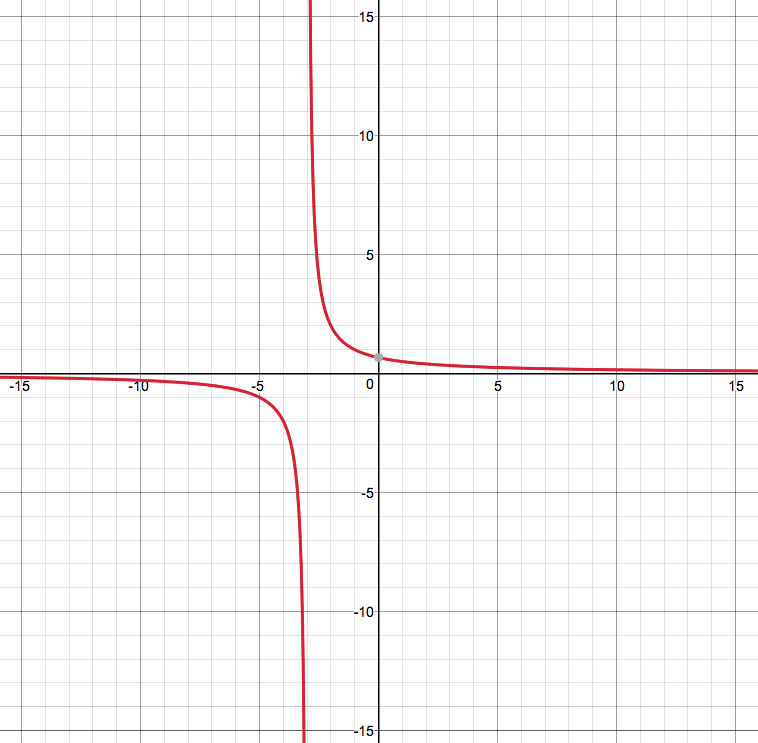
VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1. 

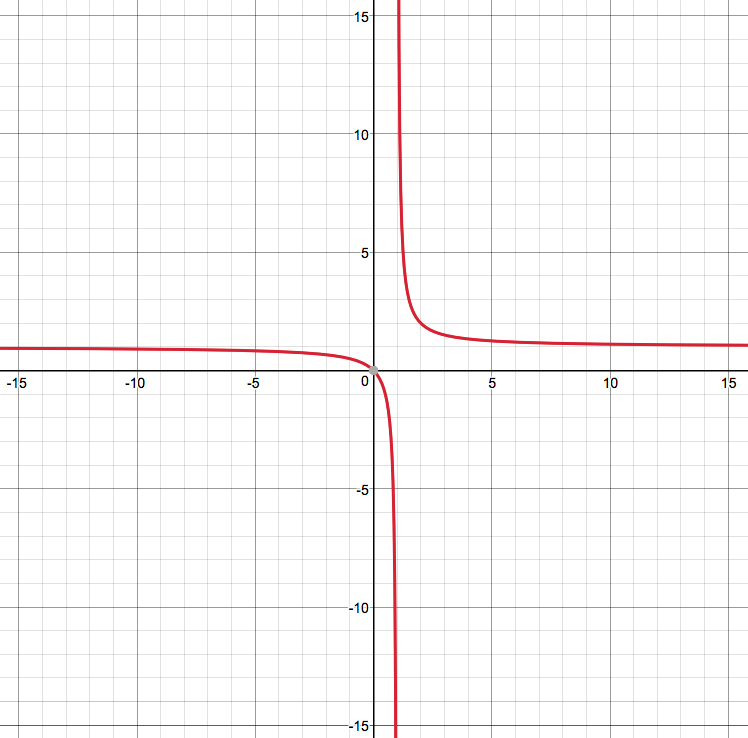
VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1. 

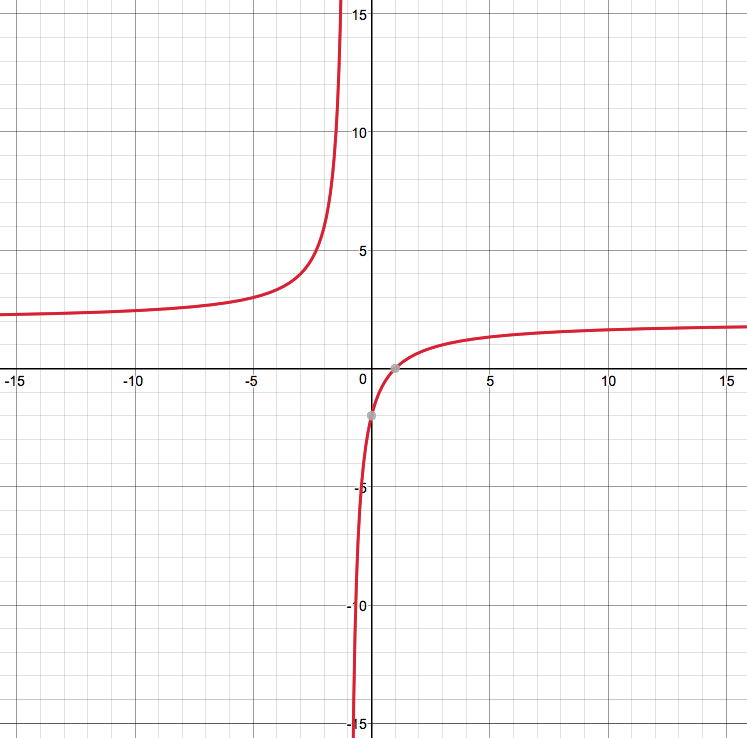
VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1. 

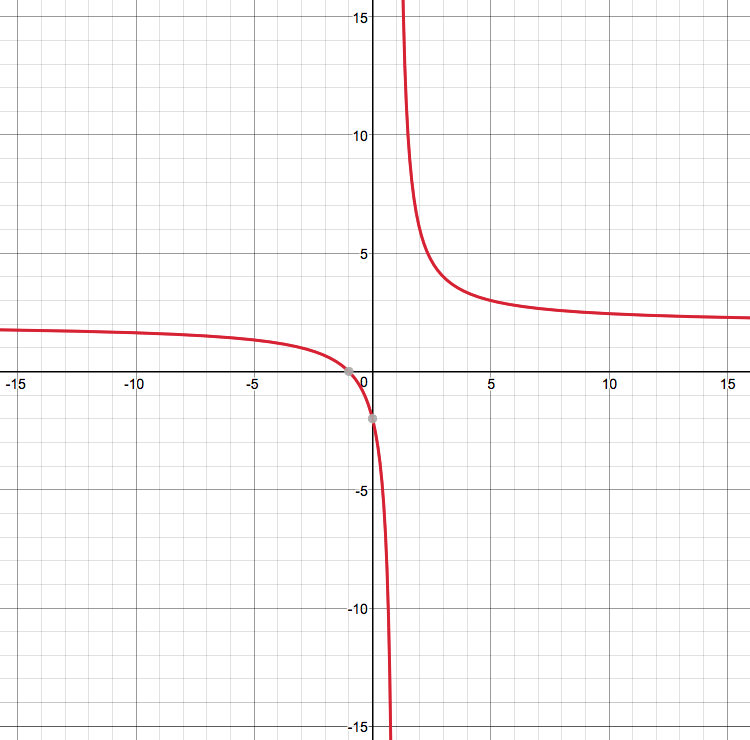
VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1. 

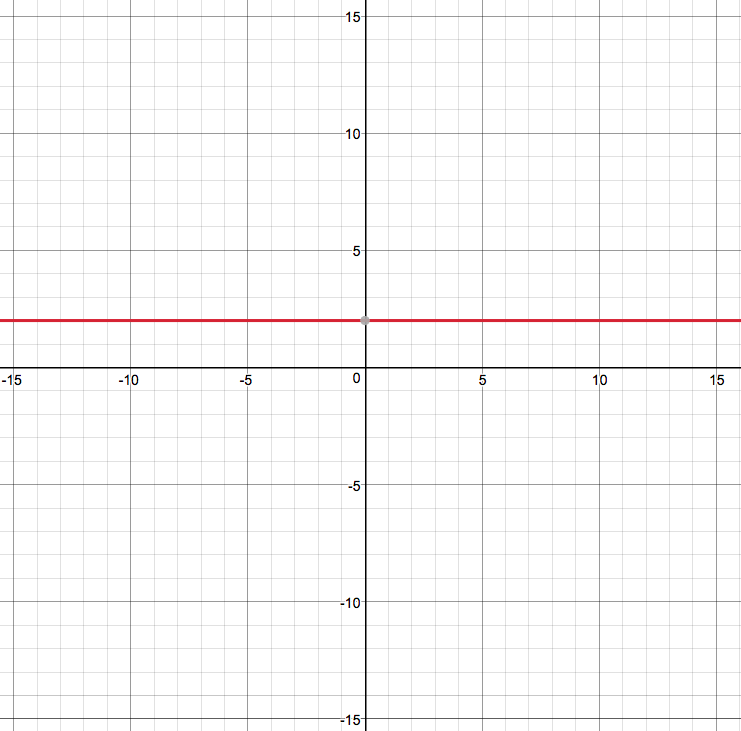
VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1. 

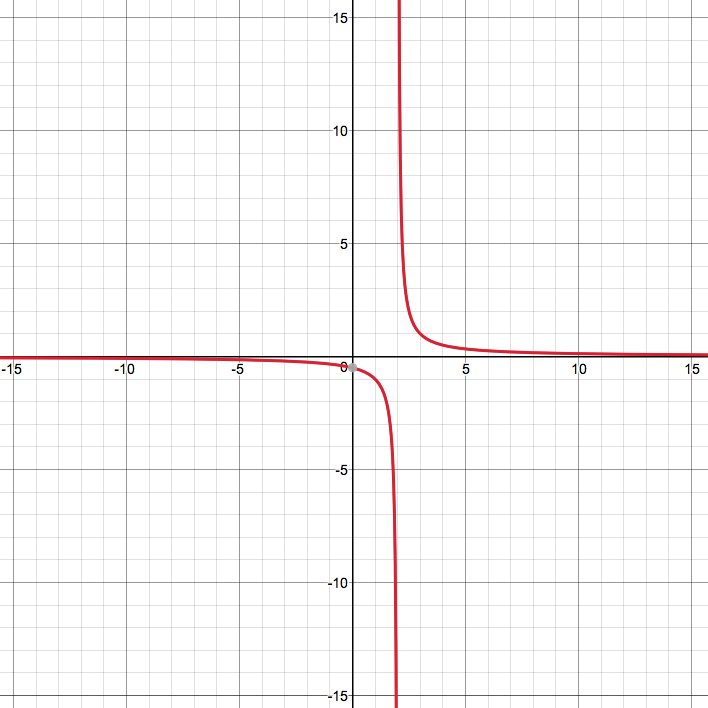
VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1. 

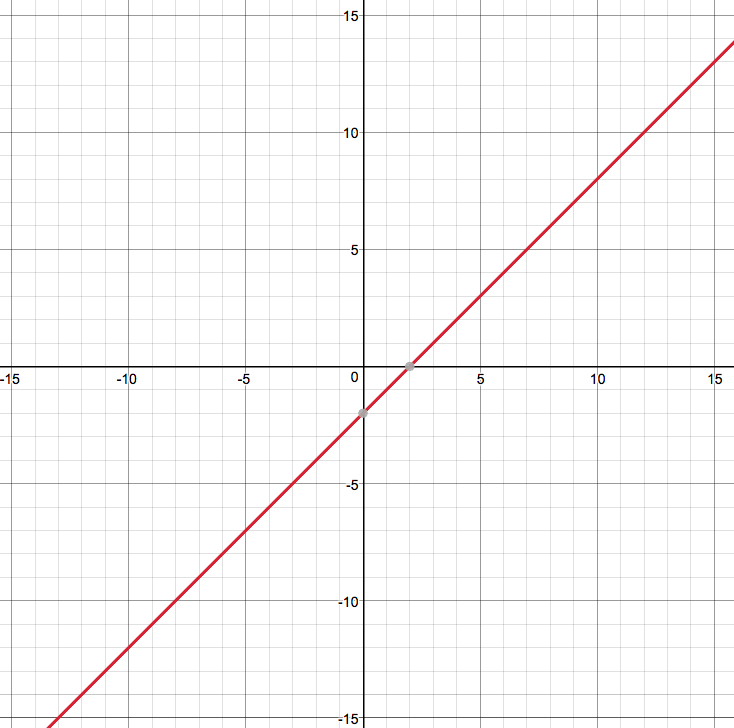
VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1. 

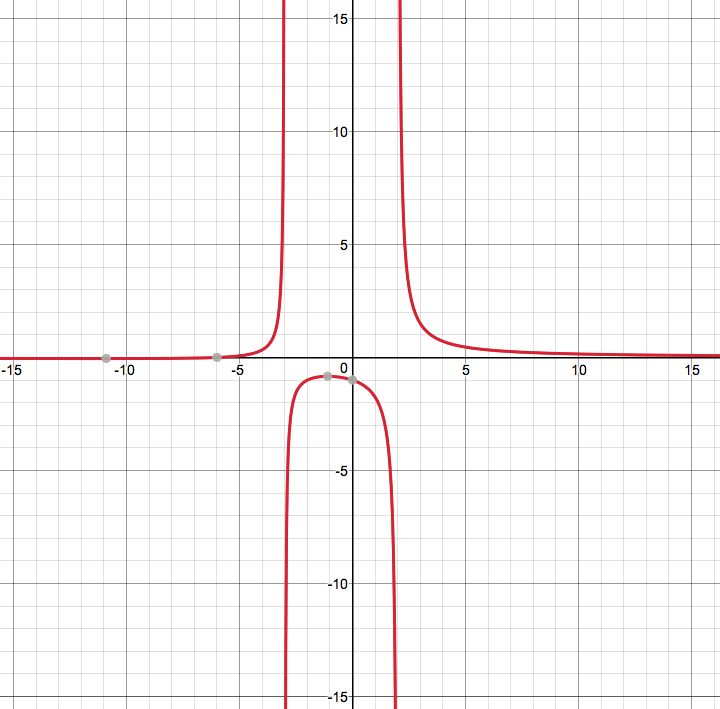
VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole:

1. 

VA:

HA:

X-Intercept(s):

Y-Intercept:

X-Value of Hole: